



Client:

KEA Properties, LLC
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Began: April 2009

Completed: July 2010

Coastal Land Design was contracted to plan and engineer an expansion of the Burnt Mill Office Park. The previously designed area had an existing stormwater permit and treatment pond, however the expansion CLD was hired to perform exceed the impervious allocation originally granted to the site.

CLD designed an underground infiltration system that would take the roof water from the proposed expansion. Roof drain leaders collect all rainwater and direct it into a header system along the rear of the building into a designed splitter box. The splitter box was designed to direct the minimum temporary storage volume plus the volume required to meet New Hanover County's pre and post discharge regulations. A sump was also included in the splitter box for maintenance. The proposed underground infiltration system was composed of 393 individual Atlantis RainTank 'single' modules. Each module was assembled on site to cut down on transportation costs. The bottom elevation was set 24" above the SHWT and geotextile fabric and ABC stone was used to protect the system from sediment contamination. Extensive coordination with NCDENR and New Hanover County was required to permit this "hybrid" system in an already developed business park in the City of Wilmington.



Site Prepared for Underground



Underground infiltration system

